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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/068,910	02/08/2002	Satoru Kawahara	020591	9398	
38834	7590 02/17/2005		EXAM	INER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			PATTERSON	PATTERSON, MARC A	
			ART UNIT	PAPER NUMBER	
SUITE 700	WASHINGTON, DC 20036			TALKNOWDER	
WASHINGT	ON, DC 20036		1772 DATE MAILED: 02/17/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		46			
	Application No.	Applicant(s)			
	10/068,910	KAWAHARA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Marc A Patterson	1772			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet wit	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR	REPLY IS SET TO EXPIRE 3 M	ONTH(S) FROM			
<ul> <li>THE MAILING DATE OF THIS COMMUNICA</li> <li>Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) dains In No period for reply is specified above, the maximum statutor.</li> <li>Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>	CFR 1.136(a). In no event, however, may a reation.  ys, a reply within the statutory minimum of thirty  y period will apply and will expire SIX (6) MONT  by statute, cause the application to become AB.	y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed o	n <u>06 December 2004</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)[	☐ This action is non-final.				
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice t	inder Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-24</u> is/are pending in the appl	ication.				
4a) Of the above claim(s) is/are w	ithdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-24</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9) The specification is objected to by the Ex					
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to b	y the Examiner.			
Applicant may not request that any objection	to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the	,				
11) The oath or declaration is objected to by	the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)☐ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority doc	uments have been received.				
2. Certified copies of the priority doc	•	•			
3. Copies of the certified copies of the	•	received in this National Stage			
application from the International	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action fo	r a list of the certified copies not r	eceived.			
Attachment(s)	A) 🗖 1-4	, , , , , , , , , , , , , , , , , , ,			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-5</li> </ol>		ummary (PTO-413) )/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date		formal Patent Application (PTO-152)			

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## **DETAILED ACTION**

#### Election/Restrictions

1. Newly submitted claim 25 is directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The claim is directed to a method of laminating a film, rather than to a film.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 25 is withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

## Claim Objections

2. Claims 1-24 are objected to because of the following informalities: The term 'foam' has insufficient antecedent basis. Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kameyama et al (U.S. Patent No. 6,088,079) in view of Nakajima et al (Japanese Patent No. 09113727).

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With regard to Claims 1-3 and 17-20, Kameyama et al disclose an optical film (layer comprising an optical element; column 14, lines 9-10) comprising a polarizing film having a protective layer on at least one side of a polarizer (column 11, lines 14-17) and a brightness enhancement film laminated to the polarizing film (a Grandjean structured liquid crystal polymer layer having a circular polarization separating function, therefore a reflecting and polarization separating function; column 4, lines 58-67); the film is capable of attachment to a glass substrate (column 5, lines 25-29 and 42). Kameyama et al fail to disclose the property of having a flexural rigidity such that when the film is subjected to a test in which the film is cut into a 25 mm by 150 mm strip shape and bent so that both ends of the film approach each other and the distance between both end is 50 mm, a force of 0.163 N or less applied to the film.

Nakajima et al teach that it is well – known in the art to adjust the thickness and Young's modulus of an optical film to obtain a desired flexural rigidity (paragraphs 0014 – 0015, English translation) for the purpose of obtaining a film having the desired flexibility (paragraph 0015, English translation). The desirability of adjusting the flexural rigidity of Kameyama et al, which is an optical film would therefore be obvious to one of ordinary skill in the art.

Therefore, one of ordinary skill in the art would have recognized the utility of varying the flexural rigidity to obtain a desired flexibility. Therefore, the flexural rigidity would be readily determined through routine optimization of thickness by one having ordinary skill in the art depending on the desired end use of the product.

It therefore would be obvious for one of ordinary skill in the art to vary the flexural rigidity in order to obtain a desired flexibility, since the flexibility would be readily determined

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through routine optimization by one having ordinary skill in the art depending on the desired end result as shown by Nakajima et al.

With regard to Claim 4, the brightness enhancement film disclosed by Kameyama et al has a circular polarizing separating function as discussed above and therefore has a linear polarizing separating function.

With regard to Claim 5, the polarizing film and brightness enhancement film disclosed by Kameyama et al are laminated by an adhesive layer (column 14, lines 30 - 40).

With regard to Claim 6, the liquid crystal polymer layer disclosed by Kameyama et al is supported on a layer of cellulose based film (therefore disposed on a protective layer of the film; column 5, lines 25 - 34).

With regard to Claim 7, the thickness of the protective layer of the polarizing film and brightness enhancement film disclosed by Kameyama et al are 50 mm or less (column 5, lines 63 -66). With regard to Claim 8, the film further comprises a retardation film (column 10, lines 54 -62) and viewing angle enlarging film (the use of multilayer structure increases viewing angle; column 6, lines 1-13).

With regard to Claims 9 - 16, the optical film disclosed by Kameyama et al is comprised in a liquid crystal display comprising a liquid crystal cell (column 2, lines 27 - 29).

With regard to Claims 21 and 23, a pressure sensitive adhesive is provided on the optical member disclosed by Kameyama et al (column 15, lines 11 - 16) and is therefore exposed to a surface of the optical member.

With regard to Claims 22 and 24, the pressure sensitive adhesive disclosed by Kameyama et al is temporarily covered with a separator (column 15, lines 1-4).

## ANSWERS TO APPLICANT'S ARGUMENTS

5. Applicant's arguments regarding the 35 U.S.C. 103(a) rejection of Claims 1 – 24 as being unpatentable over Kameyama et al (U.S. Patent No. 6,088,079) in view of Nakajima et al (Japanese Patent No. 09113727), of record on page 2 of the previous Action, have been considered but have not been found to be persuasive for the reasons set forth below.

Applicant argues, on page 7 of the remarks dated December 6, 2004, that Nakajima et al is silent to a foaming problem, and to the adjustment of flexural rigidity to solve a foaming problem.

However, as stated above, Nakajima et al teach that it is well – known in the art to adjust the thickness and Young's modulus of an optical film to obtain a desired flexural rigidity (paragraphs 0014 – 0015, English translation) for the purpose of obtaining a film having the desired flexibility (paragraph 0015, English translation). The desirability of adjusting the flexural rigidity of Kameyama et al, which is an optical film would therefore be obvious to one of ordinary skill in the art.

Therefore, one of ordinary skill in the art would have recognized the utility of varying the flexural rigidity to obtain a desired flexibility. Therefore, the flexural rigidity would be readily determined through routine optimization of thickness by one having ordinary skill in the art depending on the desired end use of the product; the intended use of the flexural rigidty in the claimed invention, to solve a foaming problem, is therefore given little patentable weight.

Applicant also argues on page 7 that Nakajima et al provides no motivation to vary flexural rigidity.

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However, as discussed above, the the flexural rigidity would be readily determined through routine optimization of thickness by one having ordinary skill in the art depending on the desired end use of the product; the intended use of the flexural rigidity in the claimed invention, to solve a foaming problem, is therefore given little patentable weight.

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6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc A Patterson whose telephone number is 571-272-1497. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mare Patterson

Marc A. Patterson, PhD.

Examiner

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